



DEPARTMENT OF DEFENSE (AFHS) Seasonal Influenza Surveillance Summary

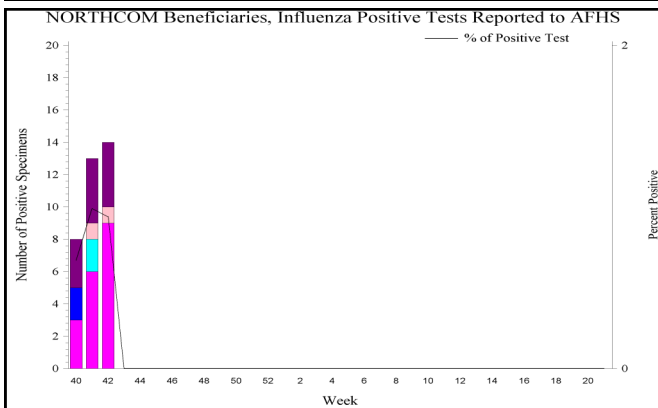
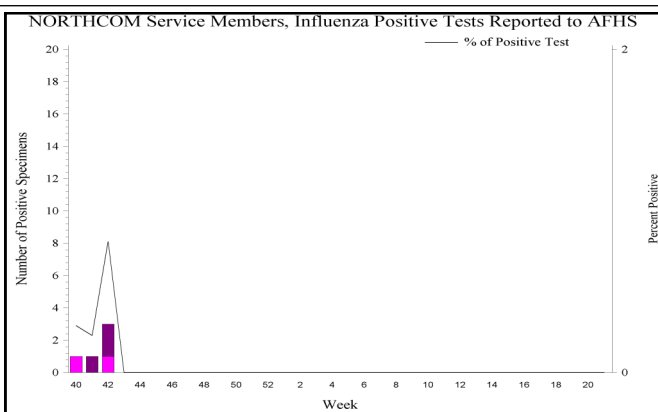
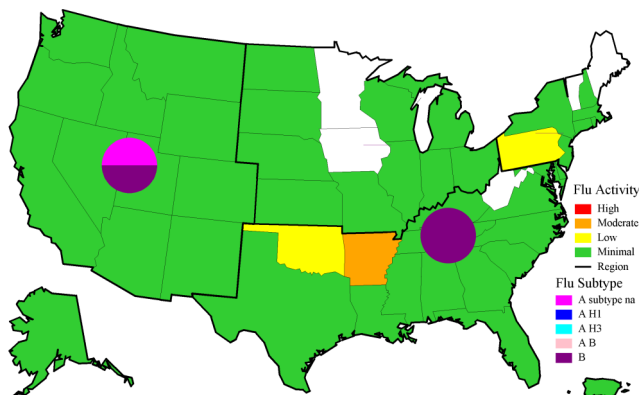


Northern Command -- Week 42 (18 Oct—24 Oct 2015)

In NORTHCOM during week 42^{1,2}

- ◆ Influenza activity was minimal and below baseline levels.
- ◆ Flu A remains the predominant circulating virus with an increase in influenza B viruses in service members and dependents.
- ◆ The cumulative percentages of positive lab tests were low for Week 42. The rates were 0.44% for service members and 0.88% for dependents.
- ◆ As of 24 October, immunization coverage among DoD service members reached 48%.
- ◆ One influenza hospitalization (RME) among a non-service member beneficiary was reported in NORTHCOM during week 42.

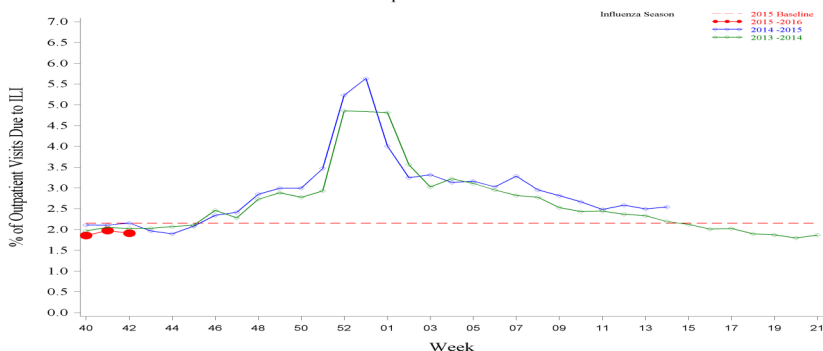
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



2015 – 2016 NORTHCOM Season Totals^{1,2}

	A/H1N1	A/H3N2	A/Untyped	Flu B	AB	% Positive
Service Members	0	0	2	3	0	0.44
Dependents	2	2	18	11	2	0.88

NORTHCOM Service Members, 2015-2016 and Previous 2 Influenza Seasons ILI Outpatient Visits



Immunization Coverage for all Commands (As of 15 October 2015)

All components	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	48%	46%	26%	42%	67%	65%

Sources: Immunization Healthcare Branch (DHA), ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIR FORCE-AFCITA

- ◆ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees:

	Week 42 ³				2015 – 2016 Recruit Season Totals ³			
	A/H1N1	A/H3N2	A/unsubtyped	Flu B	A/H1N1	A/H3N2	A/unsubtyped	Flu B
Ft Benning								
Ft Jackson								
Ft Leonard Wood								
NRTC Great Lakes								
Lackland AFB								
MCRD Parris Island								
MCRD San Diego								
CGTC Cape May								
Total	0	0	0	0	0	0	0	0

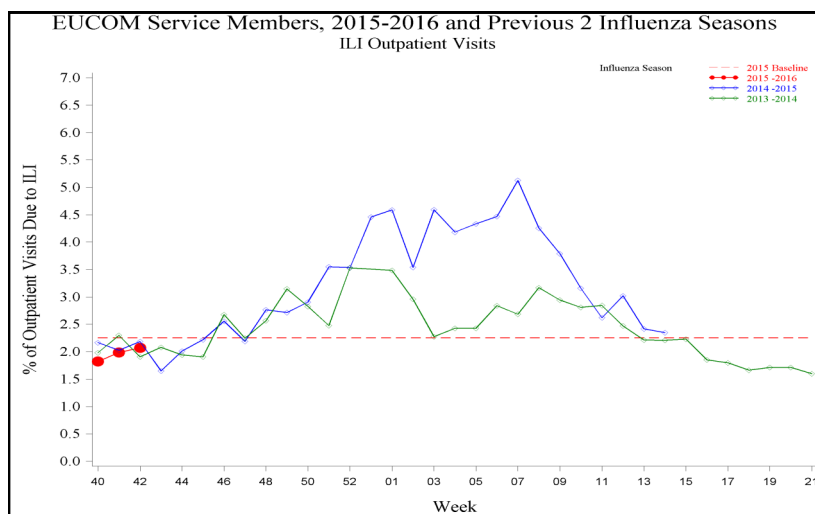
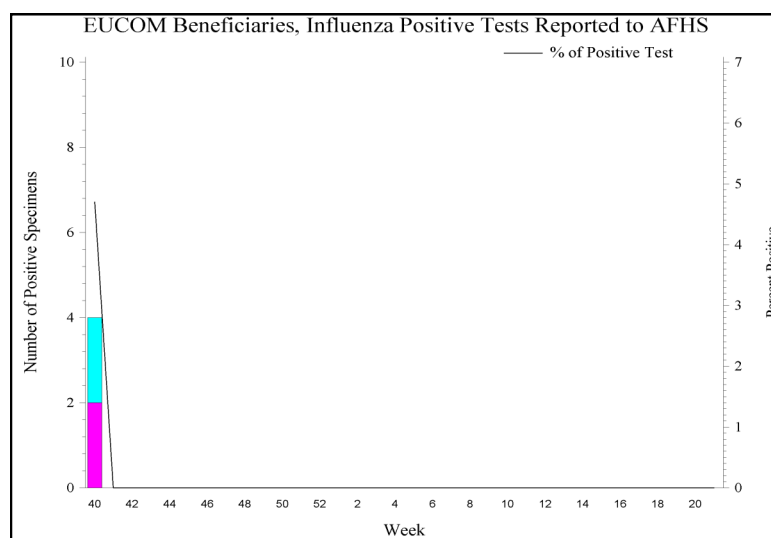
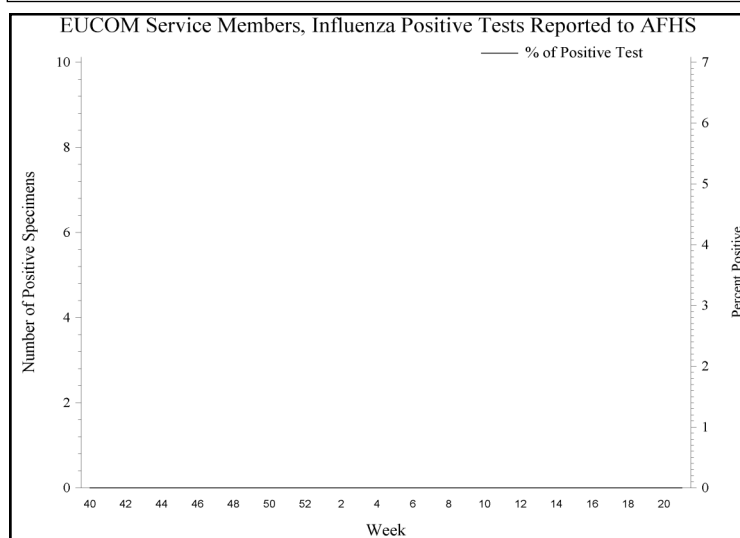
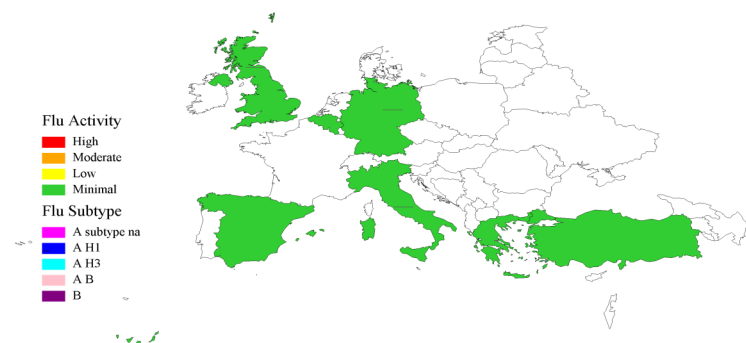
¹AFHSC, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

**European Command -- Week 42**

In EUCom during week 42^{1,4,5}

- ♦ Influenza activity was minimal across EUCom.
- ♦ The percentage of outpatient visits due to ILI was below baseline and similar to previous seasons.
- ♦ Four influenza positive lab tests among non-service member beneficiaries have been reported for EUCom this season.
- ♦ The cumulative percentages of positive lab tests were low for Week 42. The rates were 0.44% for service members and 0.88% for dependents.

EUCom Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



2015-2016 EUCom Season Totals ^{1,4,5}						
	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	% Positive
Service Members	0	0	0	0	0	0
Dependents	0	2	2	0	0	2

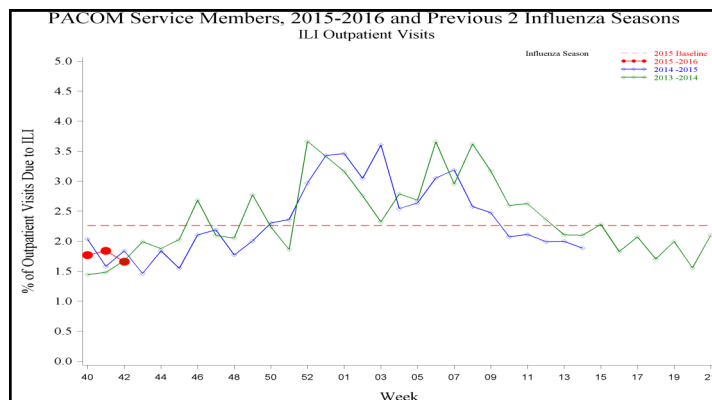
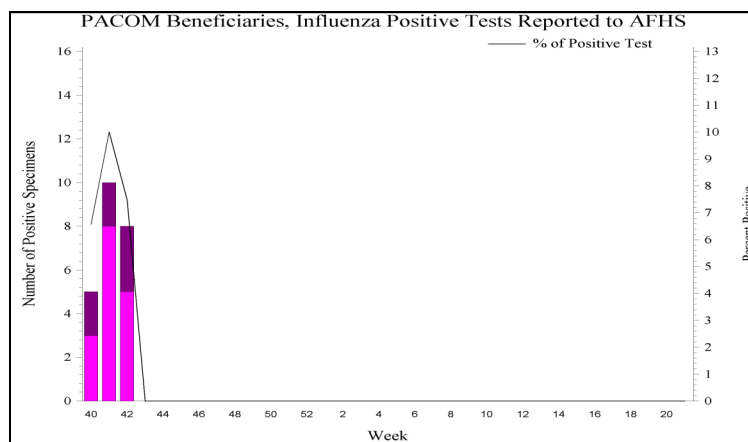
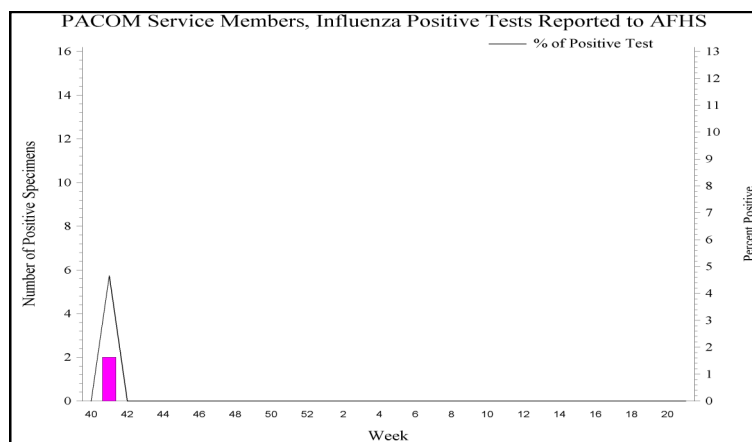
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**Pacific Command -- Week 42**In PACOM during week 42^{1,6,7}

- ◆ Influenza activity was minimal throughout PACOM.
- ◆ The percentage of outpatient visits due to ILI was below baseline and similar to previous seasons.
- ◆ Laboratory confirmed Influenza A and B were reported in Hawaii and Influenza A in Guam.
- ◆ The cumulative percent of positive lab tests for service members and dependents were 1.39% and 8.13%, respectively.
- ◆ One influenza hospitalization (RME) among a non-service member beneficiary was reported in PACOM during week 42.

PACOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks
South Korea and Japan**PACOM: GUAM and HI Influenza Activity and HL7 Test Positive (MAP: SM+BN, 2 wks)**

Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
GUAM	1:Minimal	0	0	1	0	0
HI	1:Minimal	0	0	10	5	0

**2015-2016 PACOM Season Totals^{1,6,7}**

	A/H1N1	A/H3N2	A/Untyped	Flu B	Flu AB	% Positive
Service Members	0	0	2	0	0	1.39
Dependents	0	0	16	7	0	8.13

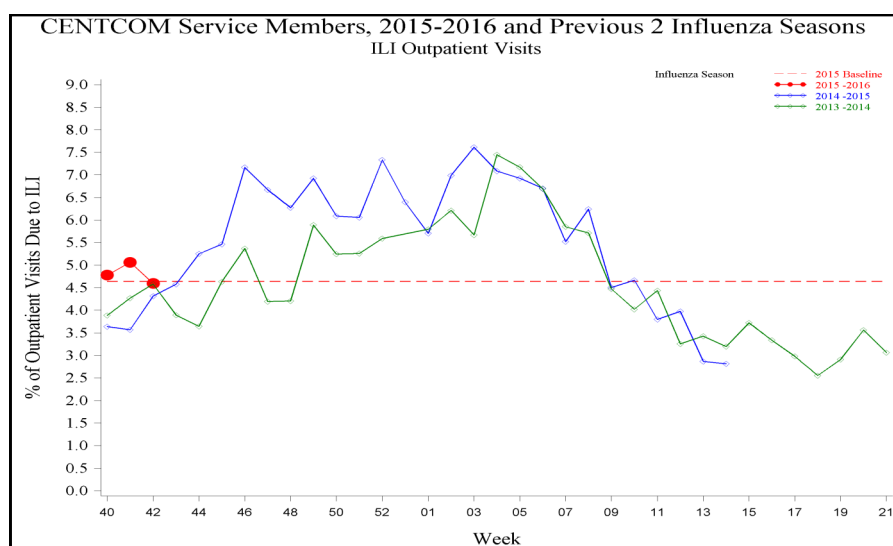
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**Central and Africa Commands -- Week 42**

In CENTCOM and AFRICOM during week 42^{1,8,9}

- ◆ Influenza activity was minimal in CENTCOM and AFRICOM.
- ◆ The percentage of outpatient visits due to ILI was at baseline and similar to previous seasons.

CENTCOM, Influenza Activity, During the Last 2 Weeks

**Southern Command -- Week 42**

In SOUTHCOM during week 42¹⁰

- ◆ Influenza activity in Honduras was minimal based on DMSS data.

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Description:

Maps, figures and tables are stratified by Combatant Commands (CCMD). The map provides a measure of influenza activity by state or country within each CCMD for the past two weeks for service members. Influenza activity is defined by the percentage of outpatient visits associated with an Influenza-like Illness (ILI) for each week compared to baseline levels of influenza activity. Additionally, a pie graph by US region or country is generated to display the distribution of influenza types and subtype identified from positive laboratory tests for the past two weeks combined.

Influenza activity: Percentage of Outpatient Visits Associated with ILI:

The percentage of all outpatient visits for ILI is calculated each week for all service members, regardless of component. This data is presented as a map of the past two weeks' activity and a figure to display the entire season's data compared to the two prior seasons and baseline. For the map, the activity level compares the mean reported percent of visits due to ILI for the past two weeks to the mean reported percent of visits due to ILI during baseline weeks. Baseline weeks are defined as non-influenza weeks (weeks 22-39) over the past 3 years.

There are four activity levels reported on each map. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current week compared to the mean of the baseline weeks. Activity levels are classified as minimal, low, moderate, and high. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza Positive Tests:

Only lab results from PCR or viral culture assays are reported. Influenza types/subtypes are categorized as influenza A not subtyped (A subtype na), influenza A/H1 (A H1), influenza A/H3 (A H3), influenza A and B co-infection (A B), and influenza B (B).

Map: Each US region or country with available data contains a pie chart that displays the distribution of influenza types and subtypes for that area for the past two weeks combined. Two weeks of data are combined instead of using just the current week's data due to delays in reporting of laboratory results.

Figure and Table: Each week, using the total number of influenza laboratory tests performed and the positive test results, the proportions positive for each serotype of influenza are calculated for service members and dependents separately.

Data Sources and Case Definitions:

Medical encounter and demographic data from the Armed Forces Health Surveillance's (AFHS) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. For the past seasons and baseline calculations, ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-9 codes is defined using the combined codes for ILI (79.99, 382.9, 460, 461.9, 465.8, 465.9, 466.0, 486, 487.0, 487.1, 487.8, 488, 490, 780.6, or 786.2). For the current season, ICD-10 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-10 codes is defined using the combined codes for ILI (B97.89, H66.9, H66.90, H66.91, H66.92, H66.93, J00, J01.9, J01.90, J06.9, J09, J09.X, J09.X1, J09.X2, J09.X3, J09.X9, J10, J10.0, J10.00, J10.01, J10.08, J10.1, J10.2, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18, J18.1, J18.8, J18.9, J20.9, J40, R05, R50.9). An individual can only be counted as a case once per week.

NORTHCOM Regions:

The regions on the NORTHCOM map (bold, black outlines) are defined using the four US Census regions, with the exception of Hawaii and Guam which are a part of PACOM. *Northeast*: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, New York, Pennsylvania, Puerto Rico, and the U.S. Virgin Islands. *South*: Delaware, the District of Columbia, Maryland, Virginia, West Virginia, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Arkansas, Louisiana, Texas, and Oklahoma. *Midwest*: Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota. *West*: New Mexico, Colorado, Montana, Utah, Wyoming, Arizona, California, Nevada, Alaska, Idaho, Oregon, and Washington.

(All data are preliminary and subject to change as updated data is received)

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